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## Congenital Cardiology Solutions

### MIDAORTIC SYNDROME: 30-YEAR EXPERIENCE WITH MEDICAL, ENDOVASCULAR AND SURGICAL MANAGEMENT

Poster Contributions

Poster Sessions, Expo North

Sunday, March 10, 2013, 3:45 p.m.-4:30 p.m.

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Session Title: Congenital Cardiology Solutions: Aortic Disease

Abstract Category: 13. Congenital Cardiology Solutions: Pediatric

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**Background:** Midaortic syndrome (MAS) is associated with severe hypertension, which can be refractory to medical management and associated with significant morbidity and mortality.

**Methods:** We describe our 30-year experience with multidisciplinary management of patients with MAS.

**Results:** Fifty-three patients were included with a median age at presentation of 6.7 (birth - 28.7) years. All patients underwent medical management and 35 patients (66%) underwent invasive management (percutaneous techniques: 21; surgical techniques: 5; both: 9). At most recent follow-up, the majority of the patients (67%) were normotensive. The median duration between the time of presentation and achievement of blood pressure control was 5.7 (0.4 - 21.1) years. The median number of anti-hypertensive medications was 1 (0 - 5). Percutaneous interventions were acutely successful in decreasing the gradient across the obstruction and % luminal stenosis. However, freedom from reintervention was only 58% at 1 year and 33% at 5 years. Freedom from reintervention after a surgical procedure was longer: 83% at 1 year and 72% at 10 years.

**Conclusions:** a multidisciplinary management strategy, which couples comprehensive medical management with catheter-based and surgical interventions, can lead to adequate blood pressure control and preservation of end-organ function in the majority of patients with MAS.